PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 187 AND HUNTINGTON PARKWAY IN MONTGOMERY COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A FOURTH LEG TO THE INTERSECTION, MD 187 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

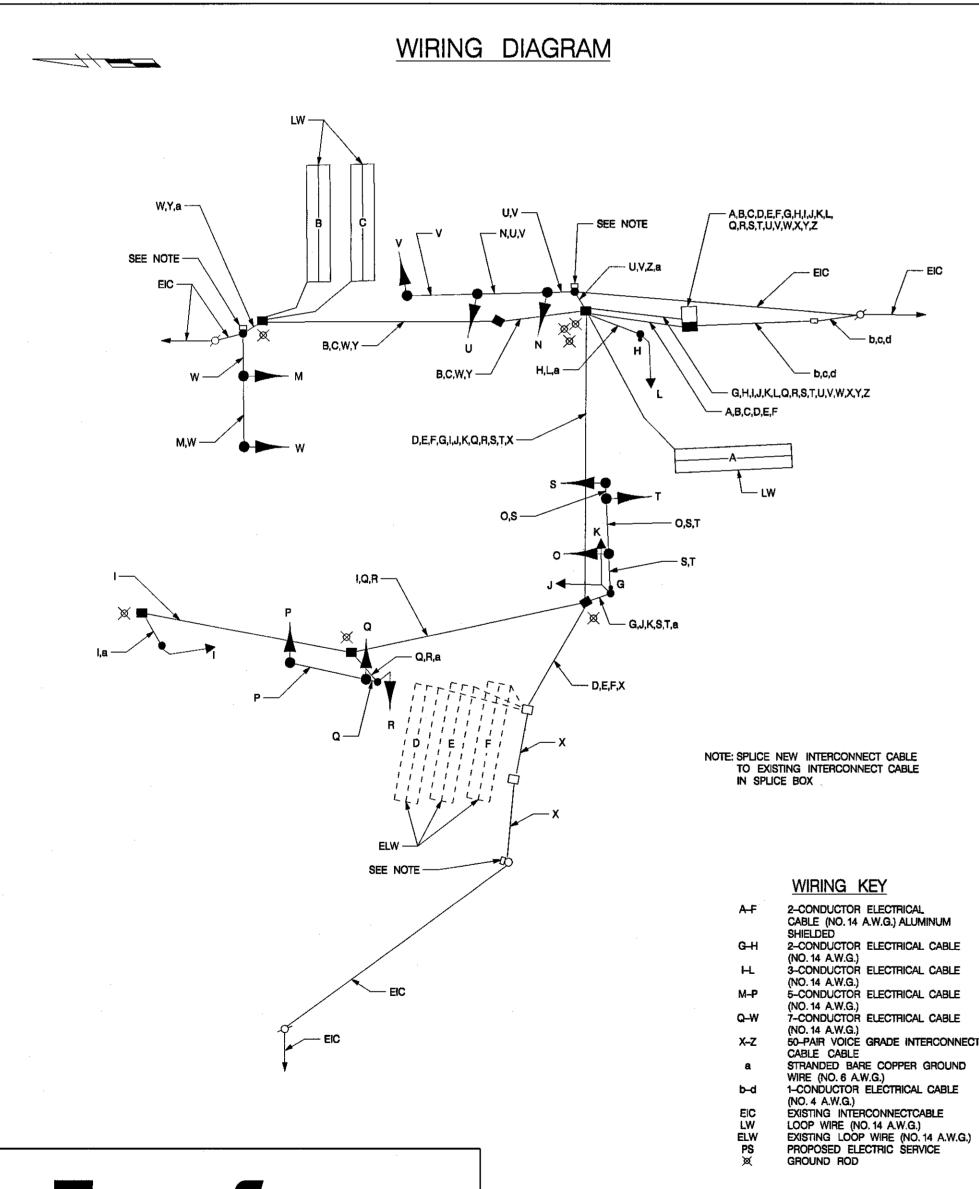
THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH A LAG EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR N.B. MD 187. THE INTERSECTION WILL NOW OPERATE IN A NEMA FIVE-PHASE, SEMI-TRAFFIC-ACTUATED MODE WITH A LAG EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR N.B. MD 187 AND SIDE STREET SPLIT PHASING. THE ALTERNATE PEDESTRIAN PHASE FOR THE SOUTH LEG OF MD 187 AND THE CONCURRENT PEDESTRIAN PHASE FOR THE WEST LEG OF HUNGTINGTON PARKWAY WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

A NEW EIGHT-PHASE, FULLY-ACTUATED CONTROLLER WITH TWO (2) FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS HOUSED IN A NEMA "6" BASE MOUNTEDCABINET WILL BE INSTALLED AT THE INTERSECTION.

SPECIAL NOTE

CONTACT MR. ROBERT GONZALAS OF THE MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AT (240) 777-8761 72 HOURS PRIOR TO THE START OF WORK.



TRAFFIC CONCEPTS INC. 325 Gambrills Road Suite E Gambrills, MD 21054 (410) 923-7101

EMAIL TRACONCEPT@AOL.COM FAX (410) 923-6473

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO. NONE

DESCRIPTION

QUANTITY

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR, ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

| ITEM NO. | <u>QUANTITY</u> | DESCRIPTION |
|-------------|-----------------|---|
| 1001 | 1 EA | MAINTENANCE OF TRAFFIC |
| 2002 | 6 CY | TEST PIT EXCAVATION |
| 5001 | 3 EA | FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW (LEFT) |
| 5001 | 1 EA | FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW (LEFT/THRU) |
| 5003 | 7 EA | REMOVE EXISTING PAVEMENT MARKING LETTER OR ARROW |
| 5004 | 230 LF | FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING |
| 5005 | 65 LF | FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING |
| 5006 | 140 LF | FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING |
| 5007 | 350 LF | FURNISH AND INSTALL 5 IN. YELLOW HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING |
| 5008 | 610 LF | REMOVAL OF EXISTING PAVEMENT LINE MARKING - ANY WIDTH |
| 8006 | 3 EA | CUT, CLEAN, AND CAP TRAFFIC SIGNAL STRUCTURE |
| 8010 | 8 EA | FURNISH AND INSTALL 12 IN. PEDESTRIAN SIGNAL HEAD SECTION |
| 8011 | 32 EA | FURNISH AND INSTALL 12 IN VEHICULAR SIGNAL HEAD SECTION |
| 8019 | 9 EA | FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION |
| 8020 | 1 EA | FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT |
| 8025 | 4 EA | FURNISH AND INSTALL 16.5 FT. MAST ARM POLE AND 50 FT. MAST ARM WITH A 15 FT. "T" DIMENSION |
| 8030 | 2 EA | FURNISH AND INSTALL PEDESTAL POLE ANY SIZE |
| 8032 | 2 EA | FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND SIGN |
| 8048 | LS | REMOVE AND DISPOSE OF EXISTING EQUIPMENT |
| 8051 | 140 LF | FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED |
| 8053 | 100 LF | FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED |
| 8057 | 17 CY | FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION |
| 8060 | 600 LF | FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE |
| 8067 | 260 LF | FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - SLOTTED |
| 8068 | 30 LF | FURNISH AND INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE |
| 8070 | 120 LF | FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG |
| 8072 | 6 EA | FURNISH AND INSTALL ELECTRICAL HANDHOLE |
| 8080 | 7 EA | FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH |
| 8081 | 650 LF | FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED |
| 8082 | 200 LF | FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO. 14 AWG |
| 8083 | 500 LF | FURNISH AND INSTALL ELECTRICAL CABLE 3-CONDUCTOR NO. 14 AWG |
| 8084 | 90 LF | FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG |
| 8085 | 1300 LF | FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG |
| 8087 | 1370 LF | FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING (NO. 14 AWG) |
| 8088 | 400 LF | FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR |
| | 2 EA | FURNISH AND INSTALL 4-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER |
| _ | 2 EA | FURNISH AND INSTALL D3-1 DUAL FACE SIGN (VAR. X 16") MAST ARM MOUNT |
| | 1 EA | FURNISH AND INSTALL R10-12 SIGN (36" X 42") MAST ARM MOUNT |
| | 3 EA | FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") MAST ARM MOUNT |
| _ | 1 EA | FURNISH AND INSTALL R3-5(R) SIGN (30" X 36") MAST ARM MOUNT |
| _ | 1 EA | FURNISH AND INSTALL R3-6(L) SIGN (30" X 36") MAST ARM MOUNT |
| _ | 1 EA | FURNISH AND INSTALL M95-1 SIGN (72" X 24") MAST ARM MOUNT |
| | 3 EA | FURNISH AND INSTALL MONTGOMERY COUNTY INTERCONNECT SPLICE BOX |
| | 1 EA | FURNISH AND INSTALL ELECTRICAL SERVICE PEDESTAL |
| | 400 LF | FURNISH AND INSTALL 50-PAIR VOICE GRADE INTERCONNECT CABLE |
| | | FURNISH AND INSTALL BASE MOUNTED CABINET AND CONTROLLER |

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.

QUANTITY

DESCRIPTION

NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. LEE STARKLOFF

ASSISTANT DISTRICT ENGINEER - TRAFFIC

MR. WAYNE MOWDY

ASSISTANT DISTRICT ENGINEER - MAINTENANCE

(301) 513-7304

MR. AUGIE REBISH

(301) 513-7318

ASSISTANT DISTRICT ENGINEER - UTILITIES

(301) 513-7350

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.

MR. EUGENE BAILEY

CHIEF, TRAFFIC OPERATIONS (410) 787-7630

TEAM LEADER SIGN OPERATIONS (410) 787-7676

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF.

TRAFFIC OPERATIONS

(410) 787-7631

MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE

(410) 787-7668

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

CONTACTS FOR MONTGOMERY COUNTY

MR. ROBERT GONZALAS TRAFFIC ENGINEERING (240) 777-8761

PHASING CHART

3 CHANGE PHASE 4 PHASE ALT. 4 CHANGE ALT. 4 OPERATION



DRAWN BY:

SCALE:

DATE:

CHECKED BY:

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Cafet

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET MD 187 AT HUNTINGTON PARKWAY

M. HOWELL F.A.P. NO. 4316A-GI T. ZAYDEL S.H.A. NO. SHEET NO. 1" = 20' MONTGOMERY COUNTY: T.I.M.S. NO. **APRIL, 2004** 2 OF 2 15018700.91 G276 LOG MILE: